

RECEIVED

Page 1 of 7

11

1644 FEB 13 2002

TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/458,302A

DATE: 02/05/2002

TIME: 11:34:07

Input Set : A:\-144.app

Output Set: N:\CRF3\02052002\I458302A.raw

PS

4 <110> APPLICANT: Epimmune, Inc.  
5 John Fikes  
6 Alessandro Sette  
7 John Sidney  
8 Scott Southwood  
9 Robert Chesnut  
10 Esteban Celis  
11 Elissa Keogh  
12 Epimmune Inc.  
14 <120> TITLE OF INVENTION: Inducing Cellular Immune Responses to  
15 Carcinoembryonic Antigen Using Pepetide and Nucleic Acid  
16 Compositions  
18 <130> FILE REFERENCE: 018623-014400US  
20 <140> CURRENT APPLICATION NUMBER: US 09/458,302A  
21 <141> CURRENT FILING DATE: 1999-12-10  
23 <150> PRIOR APPLICATION NUMBER: US 08/027,146  
24 <151> PRIOR FILING DATE: 1993-03-05  
26 <150> PRIOR APPLICATION NUMBER: US 08/073,205  
27 <151> PRIOR FILING DATE: 1993-06-04  
29 <150> PRIOR APPLICATION NUMBER: US 08/159,184  
30 <151> PRIOR FILING DATE: 1993-11-29  
32 <150> PRIOR APPLICATION NUMBER: US 08/205,713  
33 <151> PRIOR FILING DATE: 1994-03-04  
35 <150> PRIOR APPLICATION NUMBER: US 09/189,702  
36 <151> PRIOR FILING DATE: 1998-11-10  
38 <160> NUMBER OF SEQ ID NOS: 2385  
40 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
42 <210> SEQ ID NO: 1  
43 <211> LENGTH: 8  
44 <212> TYPE: PRT  
45 <213> ORGANISM: Artificial Sequence  
47 <220> FEATURE:  
48 <223> OTHER INFORMATION: Artificial Peptide  
50 <400> SEQUENCE: 1  
51 Ala Ser Asn Pro Pro Ala Gln Tyr  
52 1 5  
55 <210> SEQ ID NO: 2  
56 <211> LENGTH: 10  
57 <212> TYPE: PRT  
58 <213> ORGANISM: Artificial Sequence  
60 <220> FEATURE:  
61 <223> OTHER INFORMATION: Artificial Peptide  
63 <400> SEQUENCE: 2

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/458,302A

DATE: 02/05/2002  
TIME: 11:34:07

Input Set : A:\-144.app  
Output Set: N:\CRF3\02052002\I458302A.raw

64 Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp  
65 1 5 10  
68 <210> SEQ ID NO: 3  
69 <211> LENGTH: 11  
70 <212> TYPE: PRT  
71 <213> ORGANISM: Artificial Sequence  
73 <220> FEATURE:  
74 <223> OTHER INFORMATION: Artificial Peptide  
76 <400> SEQUENCE: 3  
77 Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe  
78 1 5 10  
81 <210> SEQ ID NO: 4  
82 <211> LENGTH: 8  
83 <212> TYPE: PRT  
84 <213> ORGANISM: Artificial Sequence  
86 <220> FEATURE:  
87 <223> OTHER INFORMATION: Artificial Peptide  
89 <400> SEQUENCE: 4  
90 Ala Ser Asn Pro Ser Pro Gln Tyr  
91 1 5  
94 <210> SEQ ID NO: 5  
95 <211> LENGTH: 10  
96 <212> TYPE: PRT  
97 <213> ORGANISM: Artificial Sequence  
99 <220> FEATURE:  
100 <223> OTHER INFORMATION: Artificial Peptide  
102 <400> SEQUENCE: 5  
103 Ala Ser Asn Pro Ser Pro Gln Tyr Ser Trp  
104 1 5 10  
107 <210> SEQ ID NO: 6  
108 <211> LENGTH: 8  
109 <212> TYPE: PRT  
110 <213> ORGANISM: Artificial Sequence  
112 <220> FEATURE:  
113 <223> OTHER INFORMATION: Artificial Peptide  
115 <400> SEQUENCE: 6  
116 Ala Thr Gly Gln Phe Arg Val Tyr  
117 1 5  
120 <210> SEQ ID NO: 7  
121 <211> LENGTH: 11  
122 <212> TYPE: PRT  
123 <213> ORGANISM: Artificial Sequence  
125 <220> FEATURE:  
126 <223> OTHER INFORMATION: Artificial Peptide  
128 <400> SEQUENCE: 7  
129 Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe  
130 1 5 10  
133 <210> SEQ ID NO: 8  
134 <211> LENGTH: 9

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/458,302A

DATE: 02/05/2002  
TIME: 11:34:07

Input Set : A:\-144.app  
Output Set: N:\CRF3\02052002\I458302A.raw

135 <212> TYPE: PRT  
136 <213> ORGANISM: Artificial Sequence  
138 <220> FEATURE:  
139 <223> OTHER INFORMATION: Artificial Peptide  
141 <400> SEQUENCE: 8  
142 Asp Ser Val Ile Leu Asn Val Leu Tyr  
143 1 5  
146 <210> SEQ ID NO: 9  
147 <211> LENGTH: 9  
148 <212> TYPE: PRT  
149 <213> ORGANISM: Artificial Sequence  
151 <220> FEATURE:  
152 <223> OTHER INFORMATION: Artificial Peptide  
154 <400> SEQUENCE: 9  
155 Glu Ile Gln Asn Thr Thr Tyr Leu Trp  
156 1 5  
159 <210> SEQ ID NO: 10  
160 <211> LENGTH: 10  
161 <212> TYPE: PRT  
162 <213> ORGANISM: Artificial Sequence  
164 <220> FEATURE:  
165 <223> OTHER INFORMATION: Artificial Peptide  
167 <400> SEQUENCE: 10  
168 Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp  
169 1 5 10  
172 <210> SEQ ID NO: 11  
173 <211> LENGTH: 10  
174 <212> TYPE: PRT  
175 <213> ORGANISM: Artificial Sequence  
177 <220> FEATURE:  
178 <223> OTHER INFORMATION: Artificial Peptide  
180 <400> SEQUENCE: 11  
181 Glu Ser Pro Ser Ala Pro Pro His Arg Trp  
182 1 5 10  
185 <210> SEQ ID NO: 12  
186 <211> LENGTH: 9  
187 <212> TYPE: PRT  
188 <213> ORGANISM: Artificial Sequence  
190 <220> FEATURE:  
191 <223> OTHER INFORMATION: Artificial Peptide  
193 <400> SEQUENCE: 12  
194 Glu Thr Gln Asp Ala Thr Tyr Leu Trp  
195 1 5  
198 <210> SEQ ID NO: 13  
199 <211> LENGTH: 10  
200 <212> TYPE: PRT  
201 <213> ORGANISM: Artificial Sequence  
203 <220> FEATURE:  
204 <223> OTHER INFORMATION: Artificial Peptide

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/458,302A

DATE: 02/05/2002  
TIME: 11:34:07

Input Set : A:\-144.app  
Output Set: N:\CRF3\02052002\I458302A.raw

206 <400> SEQUENCE: 13  
207 Glu Thr Gln Asp Ala Thr Tyr Leu Trp Trp  
208 1 5 10  
211 <210> SEQ ID NO: 14  
212 <211> LENGTH: 11  
213 <212> TYPE: PRT  
214 <213> ORGANISM: Artificial Sequence  
216 <220> FEATURE:  
217 <223> OTHER INFORMATION: Artificial Peptide  
219 <400> SEQUENCE: 14  
220 Gly Ile Pro Gln Gln His Thr Gln Val Leu Phe  
221 1 5 10  
224 <210> SEQ ID NO: 15  
225 <211> LENGTH: 11  
226 <212> TYPE: PRT  
227 <213> ORGANISM: Artificial Sequence  
229 <220> FEATURE:  
230 <223> OTHER INFORMATION: Artificial Peptide  
232 <400> SEQUENCE: 15  
233 Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe  
234 1 5 10  
237 <210> SEQ ID NO: 16  
238 <211> LENGTH: 11  
239 <212> TYPE: PRT  
240 <213> ORGANISM: Artificial Sequence  
242 <220> FEATURE:  
243 <223> OTHER INFORMATION: Artificial Peptide  
245 <400> SEQUENCE: 16  
246 Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr  
247 1 5 10  
250 <210> SEQ ID NO: 17  
251 <211> LENGTH: 8  
252 <212> TYPE: PRT  
253 <213> ORGANISM: Artificial Sequence  
255 <220> FEATURE:  
256 <223> OTHER INFORMATION: Artificial Peptide  
258 <400> SEQUENCE: 17  
259 His Leu Phe Gly Tyr Ser Trp Tyr  
260 1 5  
263 <210> SEQ ID NO: 18  
264 <211> LENGTH: 10  
265 <212> TYPE: PRT  
266 <213> ORGANISM: Artificial Sequence  
268 <220> FEATURE:  
269 <223> OTHER INFORMATION: Artificial Peptide  
271 <400> SEQUENCE: 18  
272 His Ser Ala Ser Asn Pro Ser Pro Gln Tyr  
273 1 5 10  
276 <210> SEQ ID NO: 19

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/458,302A

DATE: 02/05/2002  
TIME: 11:34:07

Input Set : A:\-144.app  
Output Set: N:\CRF3\02052002\I458302A.raw

277 <211> LENGTH: 11  
278 <212> TYPE: PRT  
279 <213> ORGANISM: Artificial Sequence  
281 <220> FEATURE:  
282 <223> OTHER INFORMATION: Artificial Peptide  
284 <400> SEQUENCE: 19  
285 His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr  
286 1 5 10  
289 <210> SEQ ID NO: 20  
290 <211> LENGTH: 8  
291 <212> TYPE: PRT  
292 <213> ORGANISM: Artificial Sequence  
294 <220> FEATURE:  
295 <223> OTHER INFORMATION: Artificial Peptide  
297 <400> SEQUENCE: 20  
298 Ile Ile Gln Asn Asp Thr Gly Phe  
299 1 5  
302 <210> SEQ ID NO: 21  
303 <211> LENGTH: 9  
304 <212> TYPE: PRT  
305 <213> ORGANISM: Artificial Sequence  
307 <220> FEATURE:  
308 <223> OTHER INFORMATION: Artificial Peptide  
310 <400> SEQUENCE: 21  
311 Ile Ile Gln Asn Asp Thr Gly Phe Tyr  
312 1 5  
315 <210> SEQ ID NO: 22  
316 <211> LENGTH: 9  
317 <212> TYPE: PRT  
318 <213> ORGANISM: Artificial Sequence  
320 <220> FEATURE:  
321 <223> OTHER INFORMATION: Artificial Peptide  
323 <400> SEQUENCE: 22  
324 Ile Ile Ser Pro Pro Asp Ser Ser Tyr  
325 1 5  
328 <210> SEQ ID NO: 23  
329 <211> LENGTH: 8  
330 <212> TYPE: PRT  
331 <213> ORGANISM: Artificial Sequence  
333 <220> FEATURE:  
334 <223> OTHER INFORMATION: Artificial Peptide  
336 <400> SEQUENCE: 23  
337 Ile Ser Pro Leu Asn Thr Ser Tyr  
338 1 5  
341 <210> SEQ ID NO: 24  
342 <211> LENGTH: 8  
343 <212> TYPE: PRT  
344 <213> ORGANISM: Artificial Sequence  
346 <220> FEATURE:

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/458,302A

DATE: 02/05/2002  
TIME: 11:34:08

Input Set : A:\-144.app  
Output Set: N:\CRF3\02052002\I458302A.raw

L:31067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2385